**Discrete Mathematics**
**Volume 192, Numbers 1–3, 28 October 1998**

## Contents

**Preface**

*W. Deuber, M. Deza and B. Leclerc* 1

**Contributions**

*H. Abels*
A projection property for buildings 3

*P.J. Cameron*
A census of infinite distance-transitive graphs 11

*V. Chepoi and S. Klavžar*
Distances in benzenoid systems: Further developments 27

*A. Deza, M. Deza and V. Grishukhin*
Fullerenes and coordination polyhedra versus half-cube embeddings 41

*J. Diatta*
Approximating dissimilarities by quasi-ultrametrics 81

*J. Diatta and B. Fichet*
Quasi-ultrametrics and their 2-ball hypergraphs 87

*A. Guénoche*
Ordinal properties of tree distances 103

*W. Imrich*
Factoring cardinal product graphs in polynomial time 119

*M. Kabil and M. Pouzet*
Injective envelope of graphs and transition systems 145

*A.V. Karzanov*
On one maximum multiflow problem and related metrics 187

*J. Koolen, V. Moulton and U. Tönges*
The coherency index 205

*B. Leclerc and V. Makarenkov*
On some relations between 2-trees and tree metrics 223

*V. Levenshtein*
On designs in compact metric spaces and a universal bound on their size 251

*H. Maehara*
Embedding a set of rational points in lower dimensions 273

*B. Monjardet*
On the comparison of the Spearman and Kendall metrics between linear orders 281

*M. Pouzet*
A projection property and Arrow's impossibility theorem 293

*A. Quilliot*
On the properties of the subsets of a discrete domain defined by the local optimae of a function endowed with some geometrical properties 309

*S. Shpectorov*
Complementary $I_1$-graphs 323

*P. Solé and J.-P. Tillich*
On the dual distance and the gap of a binary code 333

*S.C. Varone*
Trees related to realizations of distance matrices 337

Research problems 347

Author index to volume 192 353